

In the claims:

1. (Currently Amended) A method for remediating a contaminated region of a subterranean body of groundwater to destroy or reduce the initial concentration levels of contaminants, comprising:

providing at least one injection point extending from above ground to the subterranean body of groundwater;

providing a supply of substantially pure liquid oxygen;

converting said liquid oxygen to vapor oxygen;

conveying said substantially pure oxygen vapor to a non-electrically operated regulating mechanism;

delivering said substantially pure liquid oxygen vapor through said regulating mechanism to said at least one injection point and into the subterranean body of groundwater; and

delivering an amount of microbials to said at least one injection point and into the subterranean body of groundwater to assist in reducing the level of contaminants;

whereby pressurization of said supply of liquid oxygen and delivery thereof does not require electricity or any mechanical parts such that the method can operate continuously.

2. (Original) The method of claim 1, further comprising:  
providing a plurality of injection points extending from above ground to the subterranean body of groundwater.

Claims 3-4 (Previously canceled).

5. (Original) The method of claim 2, wherein said plurality of injection points are arranged in a grid pattern.

Claims 6-8 (Previously canceled).

Claim 9 (Canceled).

10. (Currently Amended) A system for naturally remediating a contaminated subterranean body of groundwater to destroy or reduce the levels of contaminants, comprising:

a plurality of injection points extending below ground to intersect the body of groundwater;

a supply of concentrated liquid oxygen in communication with each of said plurality of injection sites;

a supply of microbials in communication with each of said plurality of injection sites;

a mechanism for conveying said concentrated oxygen in vapor form and said microbials to each of said plurality of injection points; and

whereby the system can operate twenty-four hours a day and requires no electricity or moving parts to operate or be regulated.

Claim 11 (Previously canceled).

12. (Original) The system of claim 10, further comprising:

a control panel interposed between said supply of concentrated oxygen and said mechanism for conveying said concentrated oxygen to each of said plurality of injection points to regulate the flow of oxygen.

13. (Original) The system of claim 12, wherein said control panel includes a plurality of flow meters for regulating the flow rate of oxygen to said plurality of injection points.

14. (Original) The system of claim 10, wherein said mechanism includes a plurality of plastic tubes for conveying said concentrated oxygen to said plurality of injection points.

15. (Currently Amended) A method for remediating contaminated groundwater, comprising:

providing a supply of liquid oxygen;  
allowing said liquid oxygen to convert to vapor oxygen due to natural pressurization in said holding container;  
removing oxygen vapor from said supply of liquid oxygen;  
conveying said oxygen vapor to a pressure regulator;  
injecting said pressurized oxygen vapor into the groundwater;  
providing a supply of microbials; and  
injecting an amount of microbials from said supply of microbials into the groundwater;

whereby the contaminated groundwater can be remediated continuously without the need for electricity or moving parts for operation and regulation thereof.

Claims 16-17 (Previously canceled).

18. (Original) The method of claim 15, further comprising:  
regulating the flow rate of said oxygen injected into said groundwater.

19. (Original) The method of claim 18, further comprising:  
monitoring the levels of oxygen in the groundwater to determine whether the flow rate of oxygen needs adjustment.

20. (Previously Added) The method of claim 2, wherein said step of delivering said oxygen is accomplished through the use of a control panel interposed between said supply of concentrated liquid oxygen and said plurality of injection points.

21. (Previously Added) The method of claim 20, wherein said control panel includes a plurality of flow meters for regulating the flow rate of oxygen to said plurality of injection points.

22. (Previously Added) The method of claim 2, further comprising:

monitoring the level of contaminants in the subterranean body of groundwater periodically.

23. (Previously Added) The system of claim 10, wherein said plurality of injection points are arranged in a grid pattern.

24. (Previously Added) The system of claim 10, further comprising:

a pressure regulator for regulating the flow of oxygen from said supply of liquid oxygen to each of said plurality of injection points.

25. (Previously Added) The system of claim 10, further comprising:

at least one monitoring well to allow for periodic monitoring of the level of contaminants in the subterranean body of groundwater.

26. (Previously Added) The method of claim 15, wherein said oxygen and said microbials are injected into the groundwater by a plurality of injection points.

27. (Previously Added) The method of claim 26, wherein said step of injecting said oxygen is accomplished through the use of a control panel interposed between said supply of concentrated liquid oxygen and said plurality of injection points.

28. (Previously Added) The method of claim 27, wherein said control panel includes a plurality of flow meters for regulating the flow rate of oxygen to said plurality of injection points.

29. (Previously Added) The method of claim 26, wherein said plurality of injection points are arranged in a grid pattern.

30. (New) A method for remediating a contaminated region of a subterranean body of groundwater comprising:

providing at least one injection point extending from above ground to the subterranean body of groundwater;

providing a supply of a substantially pure liquid having substantially a single element;

converting said substantially pure liquid into a vapor;

conveying said vapor to a non-electrical regulating mechanism;

delivering said vapor through said regulating mechanism to said at least one injection point and into the subterranean body of groundwater; and

delivering an amount of microbials to said at least one injection point and into the subterranean body of groundwater to assist in reducing the level of contaminants.

31. (New) A system as in claim 30 wherein said single element is oxygen.

32. (New) A system as in claim 30 wherein said amount of microbials are oxygen-utilizing bacteria.

33. (New) A system as in claim 30 whereby pressurization of said substantially pure liquid and delivery thereof is performed using non-electrically operated or controlled devices.

34. (New) A system as in claim 30 wherein said non-electrical regulating mechanism comprises at least one ball float valve.

35. (New) A system as in claim 30 wherein said amount of microbials is combined with said substantially pure liquid at a substantially constant pressure.